



KO 1 RBB-013
p 53 knock out mice
Received - placed on water bottles.

Homozygous - DOB [5 males, 1 female]
B6, 129 Tr p53 t mity
B6N3F6 genetics
Male # 412/413-8 p53/p53

Heterozygous - DOB [5 males, 1 female]
(C57bl/6J male x 129/sv+ <p>+ <c>+ <Mfg-S1J> female)
Female F2

- placed on Tempol or sugar water
Tempol - 58 mM [bottles hold 200 ml - 4 gms + 400 ml water + 4 tsp sugar]
Control = 200 ml water + 1 tsp sugar

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(C57bl/6J male x 129/sv+ <p>+ <c>+ <1fg-31J- female)

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Control = 200 ml water + 1 tsp sugar

Age/Weight controls C57bl/6J

5 males; 5 females

10/92B52

DOB -

K01

Jackson Lab mice

129/Sv- ~~Trp53^{tm1Tyj}~~ [JR2080]

Developed in the Laboratory of Dr Tyler Jacks at the Center for Cancer Research, Massachusetts Inst of Technology.

129-derived D3 ES cell line. Founder mouse crossed to 129/Sv.

Strain is maintained by mating heterozygous siblings.

Homozygous mice develop tumors (mainly lymphomas) at 3-6 mo of age.

Heterozygous mice develop tumors about 10 mo of age.

Mouse	Cage	Type	Sex	Tx	DOB	Tx Date	TIME Drug	Sac Date	TIME Death
01	01	-/-	M	C			21	8/5/96	109 ✓ -
02	01	-/-	M	C			21	8/5/96	109 ✓ -
03	02	-/-	F	C			84	10/7/96	172 ✓ -
04	03	-/-	M	T			21	8/5/96	109 ✓ -
05	03	-/-	M	T			112	11/4/96	200 ✓
06	03	-/-	M	T			127	11/19/96	215 ✓
13	07	-/-	F	C			38	8/22/96	97 ✓ -
14	07	-/-	F	C			35	9/30/96	136 ✓ -
17	09	-/-	F	T			92	11/26/96	175 ✓ -
18	09	-/-	F	T			177	2/19/97	260 ✓
21	11	-/-	F	C			14	12/9/96	81 ✓ -
22	12	-/-	F	T			121	3/26/97	176 ✓ -
27	15	-/-	F	C			35	1/27/97	105 ✓ -
25	14	-/-	F	T			133	5/5/97	182 -
29	17	-/-	F	T			41	4/13/97	97 ✓ -
38	22	-/-	F	T			34	4/13/97	97 ✓ -
31	19	-/-	F	C			126	7/14/97	182 -
33	20	-/-	M	C			37	4/16/97	93 ✓ -
34	20	-/-	M	C			126	7/14/97	182 ✓
37	21	-/-	M	T			70	5/19/97	126 ✓ -
39	23	-/-	M	T			109	6/27/97	161 ✓ -

KO 1 AUTOPSY NOTES

Box 1 - Control:

mouse 1 - ascites and a large fluid-filled abdominal mass.
mouse 2 - small neck tumor

Box 3 - Treated:

mouse 1 - 4 tumors; 2 neck and 2 under forelegs.

Box 7 - Control:

mouse 1 - extremely large neck tumor.

Box 7 - Control:

mouse 2 - neck tumor.

Box 2 - Control:

mouse 1 - tumor under R foreleg.

Box 3 - Treated:

mouse 2 - large mass enveloping at upper lobes of lungs.

Box 3 - Treated:

mouse 3 - small tumor under chin; extremely large spleen. L. kidney misshapened because of the spleen.

Box 6 - Treated (+/+):

mouse 1 - control tissue.

Box 9 - Treated:

mouse 1 - enlarged spleen; small petechial hemorrhages along all lung edges; hemorrhagic cyst on L ovary; mass of milky material along abdominal midline.

KO 1 AUTOPSY NOTES

Box 11 - Treated:

mouse 1 - severe weight loss; no visible tumors.

Box 15 - Control:

mouse 1 - tumors in thoracic cavity.

Box 9 - Treated:

mouse 2 - tumor in L groin; enlarged spleen; 3-1cm lymph nodes in abdomen.

Box 12 - Treated

mouse 1 - tumor above L eye; enlarged spleen.

Box 17 - treated

mouse 1 - enlarged spleen, tumor in thoracic cavity.

Box 22 - treated

mouse 1 - tumor in thoracic cavity.

Box 20 - control

mouse 1 - tumor in thoracic cavity.

Box 14 - treated

mouse 1 - tumor in thoracic cavity.

5/19/97 -

Box 21 - Treated

mouse 1 - soft tumor (2 cm) on back over L hip

6/26/97 -

Box 23 - Treated

mouse 1 - tumor in thorax, enlarged spleen.

KO 1 AUTOPSY NOTES

7/14/97 -

Box 19 - Control

mouse 1 - enlarged spleen

Box 20 - Control

mouse 2 - ear lesion on L, appeared to be a small tumor; enlarged spleen.

Pathology/Histotechnology Laboratory Pathology Report

201

INVESTIGATOR: Deluca/Mitchell

HISTO #: 97-118120

- 3-1 Malignant lymphoma, lymphoblastic. Tissue submitted is likely thymus.
- 3-2 Two slides submitted. Spleen. Two neoplasms: hemangioscoma and lymphoblastic lymphoma which involves primarily the white pulp. Also present are increased extramedullary hematopoiesis, moderate and angiectasis, moderate, multifocal. Mandibular L.n. - Lymphoplastic lymphoma. Salivary gland - Lymphoblastic lymphoma.
- 9-1 Lung - Hemangiosarcoma, metastatic; hemorrhage, moderate, multifocal. The septa have numerous lymphocytes; this could represent a leukemic infiltrate but other lymphoid organs from this mouse should be evaluated before this diagnosis can be definite.
- 9-2 Spleen - Lymphoblastic lymphoma. Lymph nodes, inguinal and abdominal - Lymphoblastic lymphoma.
- 15-1 Thymus - Lymphoblastic lymphoma.

Comments: Lymphoblastic lymphoma is the most common hematopoietic neoplasm in p53 KO mice.

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PERCENT SURVIVAL

